

Title: IDENTIFICATION AND USE OF ANTIVIRAL COMPOUNDS THAT INHIBIT INTERACTION OF HOST CELL PROTEINS...

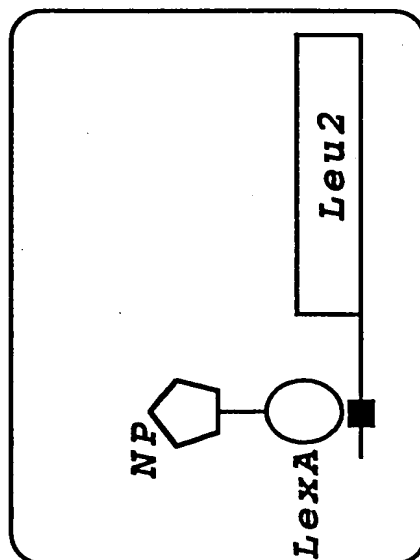
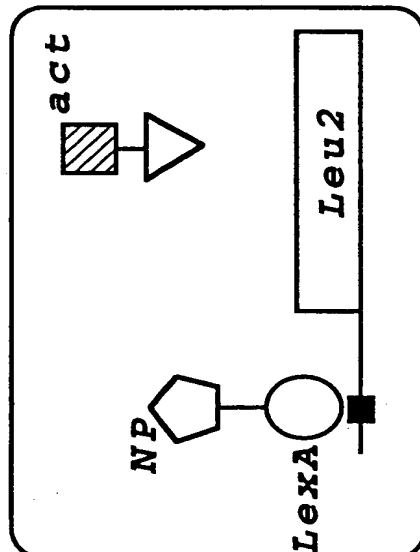
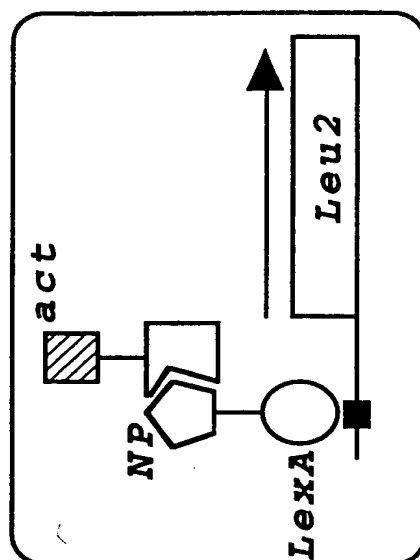


FIG. 1A

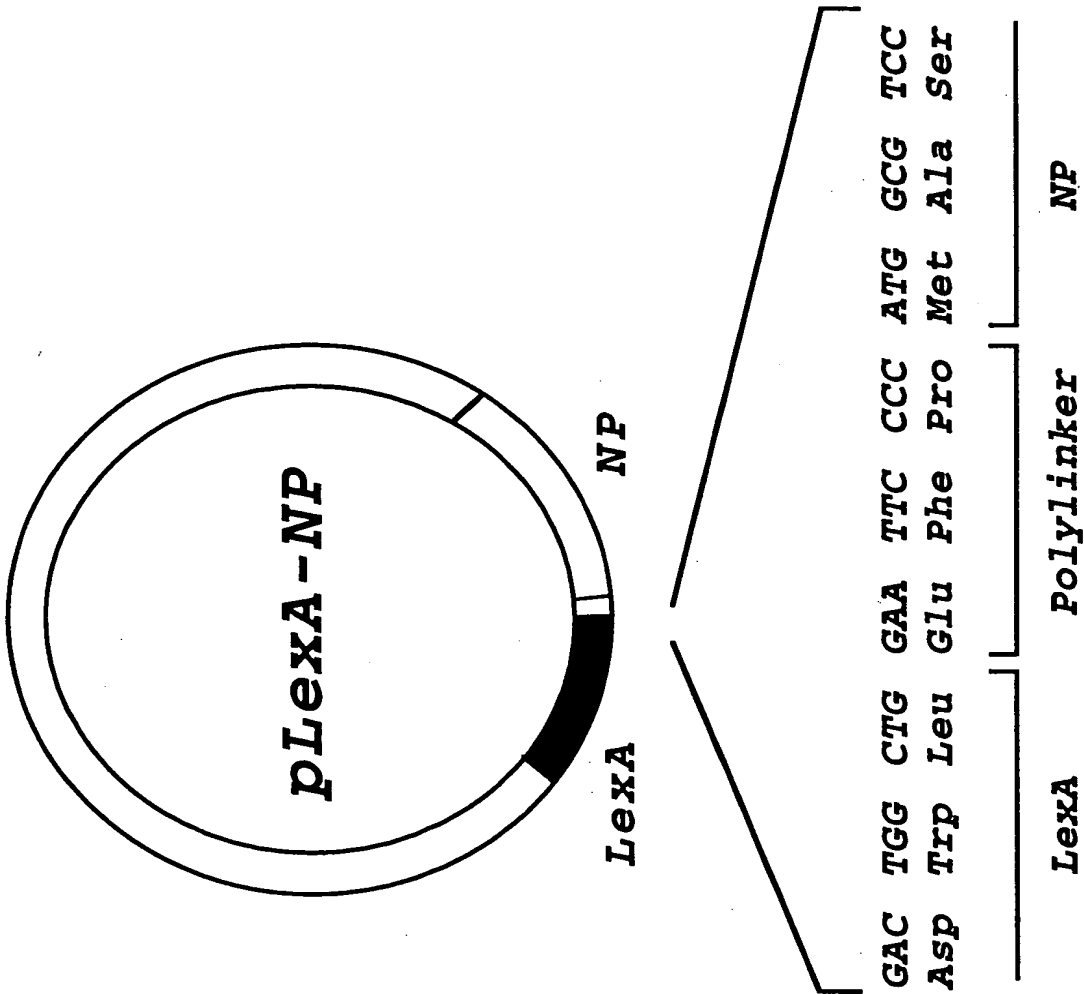
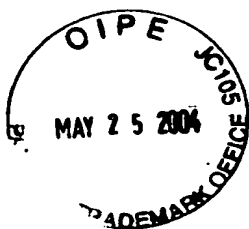


FIG. 1B



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20      40      60
CTAACTTCAG CGGTGGCACC GGGATCGGTT GCCTTGAGCC TGAAATATGA CCACCCCAGG
          M T T P G>

80      100     120
AAAAGAGAAC TTTCGCCCTGA AAAGTTACAA GAACAAATCT CTGAATCCCG ATGAGATGCG
K E N F R L K S Y K N K S L N P D E M R>

140     160     180
CAGGAGGAGG GAGGAAGAAG GACTGCAGTT ACGAAAGCAG AAAAGAGAAG AGCAGTTATT
R R R E E E G L Q L R K Q K R E E Q L F>

200     220     240
CAAGCGGAGA AATGTTGCTA CAGCAGAAGA AGAAACAGAA GAAGAAGTTA TGTCAGATGG
K R R N V A T A E E E T E E E V M S D G>

260     280     300
AGGCTTTCAT GAGGCTCAGA TTAGTAACAT GGAGATGGCA CCAGGTGGTG TCATCACTTC
G F H E A Q I S N M E M A P G G V I T S>

320     340     360
TGACATGATT GAGATGATAT TTTCCAAAG CCCAGAGCAA CAGCTTTCAG CAACACAGAA
D M I E M I F S K S P E Q Q L S A T Q K>

```

FIG. 2A



```

380          400          420
ATTCAGGAAG CTGCTTTCAA AAGAACCCTAA CCCTCCTATT GATGAAGTTA TCAGCACACC
F R K L L S K E P N P P I D E V I S T P>

440          460          480
AGGAGTAGTG GCCAGGTTTG TGGAGTTCCT CAAACGAAAA GAGAATTGTT CACTGCAGTT
G V V A R F V E F L K R K E N C S L Q F>

500          520          540
TGAATCAGCT TGGGTACTGA CAAATATTGC TTCAGGAAAT TCTCTTCAGA CCCGAATTGT
E S A W V L T N I A S G N S L Q T R I V>

560          580          600
GATTCAGGCA AGAGCTGTGC CCATCTTCAT AGAGTTGCTC AGCTCAGAGT TTGAAGATGT
I Q A R A V P I F I E L L S S E F E D V>

620          640          660
CCAGGAACAG GCAGTCTGGG CTCTTGCAA CATGCTGGA GATAGTACCA TGTGCAGGGA
Q E Q A V W A L G N I A G D S T M C R D>

680          700          720
CTATGTCTTA GACTGCAATA TCCTTCCCCC TCTTTGTCAG TTATTTTCAA AGCAAAACCG
Y V L D C N I L P P L L Q L F S K Q N R>

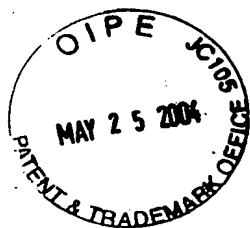
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FIG. 2B



740	760	780
CCTGACCATG ACCCGGAATG CAGTATGGGC TTGTCTAAT CTCTGTAGAG GGAAAAGTCC		
L T M T R N A V W A L S N L C R G K S P>		
800	820	840
ACCTCCAGAA TTGCAAAAGG TTCTCCATG TCTGAATGT CTTTCCCTGGT TGCTGTTTGT		
P P E F A K V S P C L N V L S W L L F V>		
860	880	900
CAGTGACACT GATGTA CTGATGCCCTG CTGGGCCCTC TCATATCTAT CAGATGGACC		
S D T D V L A D A C W A L S Y L S D G P>		
920	940	960
CAATGATAAA ATTCAAGCGG TCATCGATGC GGGAGTATGT AGGAGACTTG TGGAACCTGCT		
N D K I Q A V I D A G V C R R L V E L L>		
980	1000	1020
GATGCATAAT GATTATAAAG TGGTTTCTCC TGCTTTGCGA GCTGTGGAA ACATTGTCAC		
M H N D Y K V V S P A L R A V G N I V T>		
1040	1060	1080
AGGGATGAT ATTCAGACAC AGGTAATTCT GAATTGCTCA GCTCTGCAGA GTTTATTGCA		
G D D I Q T Q V I L N C S A L Q S L L H>		

FIG. 2C



1100	1120	1140
TTTGCTGAGT AGCCCAAAGG AATCTATCAA AAAGGAAGCA TGTTGGACGA TATCTAATAT		
L L S S P K E S I K K E A C W T I S N I>		
1160	1180	1200
TACAGCTGGA AATAGGGCAC AGATCCAGAC TGTGATAGAT GCCAACATTT TCCCAGCCCT		
T A G N R A Q I Q T V I D A N I F P A L>		
1220	1240	1260
CATTAGTATT TTACAAACTG CTGAATTTCG GACAAGAAA GAAGCAGCTT GGGCCATCAC		
I S I L Q T A E F R T R K E A A W A I T>		
1280	1300	1320
AAATGCAACT TCTGGAGGAT CAGCTGAACA GATCAAGTAC CTAGTAGAAC TGGGTTGTAT		
N A T S G G S A E Q I K Y L V E L G C I>		
1340	1360	1380
CAAGCCGCTC TGTGATCTCC TCACGGTCAT GGA CTCTAAG ATTGTACAGG TTGCCCTAAA		
K P L C D L L T V M D S K I V Q V A L N>		
1400	1420	1440
TGGCTTGGA AATATCCTGA GGCTTGAGA ACAGGAAGCC AAAAGGAACG GCAC TGGCAT		
G L E N I L R L G E Q E A K R N G T G I>		

FIG. 2D



1460	1480	1500
TAACCCCTTAC TGTGCTTTGA TTGAAGAAGC TTATGGTCTG GATAAAATTG AGTTCTTACA		
N P Y C A L I E E A Y G L D K I E F L Q>		
1520	1540	1560
GAGTCATGAA AACCAGGAGA TCTACCAAAA GGCCTTTGAT CTTATTGAGC ATTACTTCGG		
S H E N Q E I Y Q K A F D L I E H Y F G>		
1580	1600	1620
GACCGAAGAT GAAGACAGCA GCATTGCACC CCAGGTTGAC CTTAACCAGC AGCAGTACAT		
T E D E D S S I A P Q V D L N Q Q Q Y I>		
1640	1660	1680
CTTCCAACAG TGTGAGGCTC CTATGGAAGG TTTCCAGCTT TGAAGCAATA CTCTGCTTTC		
F Q Q C E A P M E G F Q L>		
1700	1720	1740
ACGTACCCTGT GCTCAGACCA GGCTACCAG TCGAGTCCTC TTGTGGAGCC CACAGTCCTC		
1760	1780	1800
ATGGAGCTAA CTTCTCAAAT GTTTTCCATA ATACTGTTTG CGCTCATTTG CTTGCCCTTG		
1820	1840	1860
GCACCTGCTC TCTTACACAC ATCTGGAAAA CCTCCGGCTC TCTGTGGTGG GATACCCCTTC		

FIG. 2E



1880	1900	1920
TAATAAAAGG GTAACCAGAA CGGCCCACTC TCTTTTACGG AAAAATCCCT AGGCTTTGGA		
1940	1960	1980
GATCCGCACT TACATTAGAG TTATGGGAAT ATACACATAT TAATGTGGCT CCTTTTCT		
2000	2020	2040
TGTGGGGGAA TAAAAGAGGA CTCCTCCTCA TTCCCTTTAA CATGGGGGAA AAAACTGACA		
2060	2080	2100
TTAAAAGATG AGACTAAATC TTTATCTTGA ATTTTACACA ACTACTTACG ACAAGGGAGA		
2120	2140	2160
TGTTTAGACC TGTTGGTATA CTTCAGAGTA CTTTTCATGA GTTCTTCCAC AGTGAACCCCT		
2180	2200	2220
TGGATTACCT GGTGGCTTTT TCTAGCCAGA TTGCATTAAT CCTTACTGAG ATTGGATGGT		
2240	2260	2280
TTTCTTTTCT CTATTGGCGC CATTCTTCAG ATATTAAAGT TAAACCATCC ACTCCCTCAC		
2300	2320	2340
CTTCAGCCCT CAGTGAATGT GCTTCTTAGT TGTCAGGAAT GCTGAAGAAT TAACACTTTG		

FIG. 2F



2360	2380	2400
ACTCCTAAAT GTGATACTGG TGGGTAAGAG CAGGGCACAT TTAATTTGTT CGCTTTTGCT		
2420	2440	2460
TCTCTTTGGT CTGGGCACAT TTAATTTGTT CGCTTTTGCT TCTCTTTGGT CTTTTCGAAT		
2480	2500	2520
ACTTAGTAAT CGAAAACCAT ATCCTGTAAT TTAATAAAA AACTAAGGA CGAAAAAACC		
2540	2560	2580
CCTCCAATT TCCCAAATGC AATCAGTGA ACTAGGGGCT GTGTTTCTGC ATTAAAAATAA		
2600	2620	2640
ATGTTTCAGG CTTTGTGGTC CTGATCAAGG TCCTCATTA AAAATTGGAG TTCACCCCTAG		
2660	2680	2700
GCCTTTCCCC TCTGTGACTG GCAGATAACA CATACTTTG AAAGTAACTT TGGGATTTT		
2720	2740	2760
TTTCTTAGGT GCAGCTCGAT TCTAATCTTT TCATGCTGCA CAGGATTCCT TTAATCGATA		
2780	2800	2820
GCATCCCTTAT CTGAAAGAAA TAACCATCTT CTCAACATGA CCTGCTTAAC CCAATAAGA		

FIG. 26



Docket No.: 6923-054-999
Serial No.: 08/444,994
Inventor(s): Palese et al.
Title: IDENTIFICATION AND USE OF
ANTIVIRAL COMPOUNDS THAT INHIBIT
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2840	2860	2880
ACAGTGATCT TATAACCTCA TTGTTTCCTA ATCTATTTTA TTTCATCTCC TGCTAGTACT		
2900	2920	2940
GTGCCGCTTC CCCCTCCCC CACACAAAAT AAAACAGTA TCTCGCTTCT GGCTCATTTT		

FIG. 2H



		1	12
NPI-1		MTTPGKENFRLK	
		:	
SRP1		MDNGTDSSTSKFVPEYRRT	
	13		58
NPI-1	SYKNKS-LNPDVMRRRREEGLQLRKLKREEQLFKRRNVVTAEETE		
		
SRP1	NFKNKRFSADELRRRRTDQQVELRKAKRDEALAKRRNFIPPTDGAD		
	59		105
NPI-1	EEVMSDGGFHEAQISNMEMAPGGVITSDMIEMIFSKSPEQQLSATQK		
		
SRP1	SDEEDESSVSADQQFYSQLQQ—ELPQMTQQLNSDDMQEQLSATVK		
	106		150
NPI-1	FRKLLSKEPDPPIDE-VISTPGVWARFVEFLKR-KENCSLQFESAWV		
	:: : . ::: :: :: ::: :: : : .		
SRP1	FRQILSREHRPPID—VVIQAGVVPRLVEFMRE-NQPEMLQLEAAWA		
	151		192
NPI-1	LTNIASGNSLQTRI—VIQARAV-PIFIELLSS-ESEDVQE-QAWWA		
	. ::: :: :: : :. :: :		
SRP1	LTNIASGTSAQTKV—VVDADAV-PLFIQLLYT-GSVEVKE-QAIWA		
	193		235
NPI-1	LGNIAGDSTMCRDY—VLDCNIL-PPLLQLFSKQNRLTMTN-NAVWA		
	:: . : :: : ::: . :		
SRP1	LGNVAGDSTDYRDY—VLQCNAM-EPILGLFNS-NKPSLIR-TATWT		
	236		277
NPI-1	LSNLCRGKSPPEF—AKVSPCL-NVLSWLLFV-SDTDVLA-DACWA		
	. . :: : . :: :: : .		
SRP1	LSNLCRGKKPQPDW—SVVSQAL-PTLAKLIYS-MDTETLV-DACWA		
	278		318
NPI-1	LSYLSDGPNDKIQ—VIDAEYVET-VELLMH-NDYKVVS-PALRA		
	: :: . . :. :		
SRP1	ISYLSDGPQEAQ—VIDVRIPKRLVELLSH-ESTLVQT-PALRA		
	319		360
NPI-1	VGNIVTGDDIQTV—ILNCSALQSLHLLSS-PKESIKK-EACWT		
	: : :: :. :: :		
SRP1	VGNIVTGNDLQTV—VINAGVLPALRLLSS-PKENIKK-EACWT		
	361		402
NPI-1	ISNITAGNRAQIQ—VIDANIFPALISILQT-AEFRTRK-EAANA		
	. : : : ::: . : :		
SRP1	ISNITAGNTEQIQ—VIDANLIPPLVKLLEV-AEYKTKK-EACWA		

FIG.3A

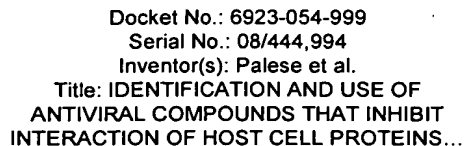


FIG. 3B



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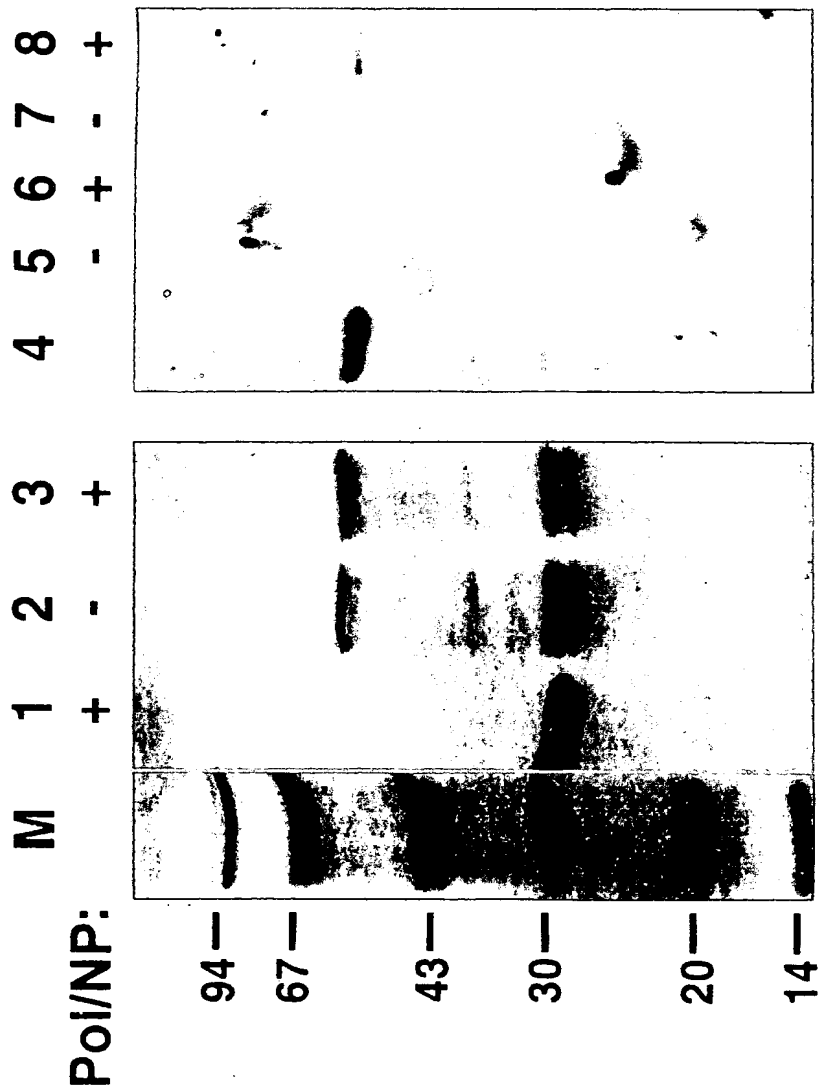


FIG.4

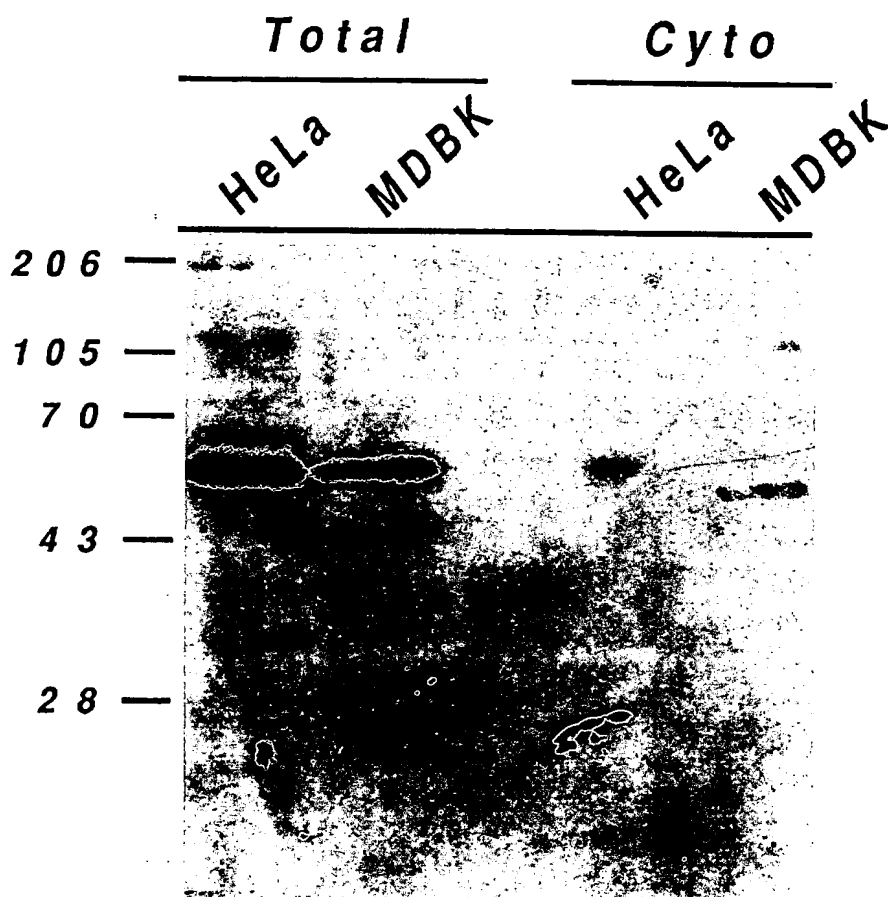


FIG.5



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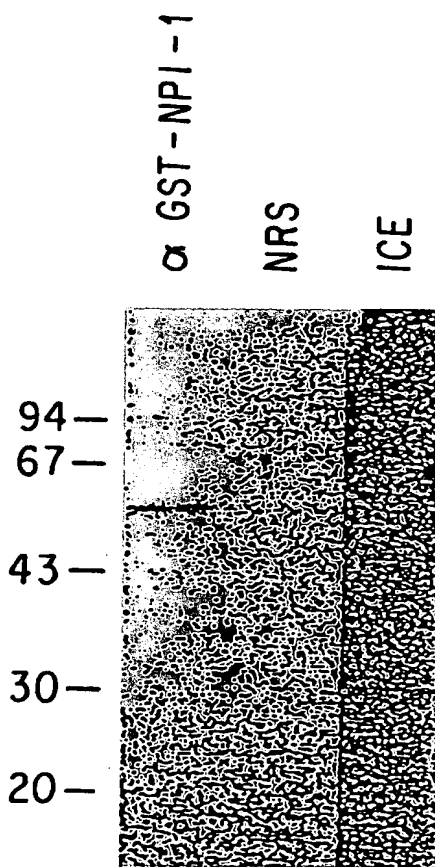


FIG.6



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	20	40	60
GGAGGCACCG	AAGGGCAGCG	CCGAGTCGGA	GGGGCGAAG ATTGACGCCA GTAAGAACGA
	80	100	120
GGAGGATGAA	GGCCATTCAA	ACTCCTCCCC	ACGACACTCT GAAGCAGCGA CGGCACAGCG
	140	160	
GGAAGAATGG	AAAATGTTTA	TAGGAGGCCT	TAGCTGGGAC ACTACAAAGA

FIG.7



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20      40      60
GAGGTCAATG TGGAGCTGAG GAAAGCTAAG AAGGATGACC AGATGCTGAA GAGGAGAAAT
E V N V E L R K A K K D D Q M L K R R N>

80      100      120
GTAAGCTCAT TTCCTGATGA TGCTACTTCT CCGCTGCAGG AAAACCGCAA CAACCAGGGC
V S S F P D D A T S P L Q E N R N N Q G>

140      160      180
ACTGTAAATT GGTCTGTTGA TGACATTGTC AAAGGCATAA ATAGCAGCAA TGTGGAAT
T V N W S V D D I V K G I N S S N V E N>

200      220      240
CAGCTCCAAG CTA CTCAAGC TGCCAGGAAA CTACTTTCCA GAGAAAACA GCCCCCCATA
Q L Q A T Q A A R K L L S R E K Q P P I>

260      280      300
GACAAACATAA TCCGGGCTGG TTTGATTCCG AAATTGTGT CCTTCTGGG CAGAACTGAT
D N I I R A G L I P K F V S F L G R T D>

320      340      360
TGTAAGTCCCA TTCAGTTTGA ATCTGCTTGG GCACTCACTA ACATTGCTTC TGGGACATCA
C S P I Q F E S A W A L T N I A S G T S>

```

FIG. 8A



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380      GAACAAACCA AGGCTGTGGT AGATGGAGGT GCCATCCCAG CATTCAATTC TCTGTTGGCA
      EQTKAVVDGGADGGAIFISLLA>
420
440      TCTCCCCATG CTCACATCAG TGAACAAGCT GTCTGGGCTC TAGGAAACAT TGCAGGTGAT
      SPHAHIS EQAVWALGNIA GD>
480
500      GGCTCAGTGT TCCGAGACTT GGTATTAG TACGGTGCAG TTGACCCACT GTTGGCTCTC
      GSVFRDLV I K YGA V D P L L A L>
540
560      CTTGCAGTTC CTGATATGTC ATCTTTAGCA TGTGGCTACT TACGTAATCT TACCTGGACA
      LAVPDMSS SLACGYLRNL TW T>
600
620      CTTTCTAATC TTGCGCGCAA CAAGAATCCT GCACCCCCGA TAGATGCTGT TGAGCAGATT
      LSNLCRNKNPA P A P I D A V EQ I>
660
680      CTTCTACCT TAGTTCGGCT CCTGCATCAT GATGATCCAG AAGTGTTAGC AGATACCTGC
      LPTLVRL LHHDDPEVLA DT C>
720
```

FIG. 8B



740	760	780
TGGGCTATTT CCTACCTTAC TGATGGTCCA AATGAACGAA TTGGCATGGT GGTGAAAACA		
W A I S Y L T D G P N E R I G M V V K T>		
800	820	840
GGAGTTGTGC CCCAACTTGT GAAGCTTCTA GGAGCTTCTG AATTGCCAAT TGTGACTCCT		
G V V P Q L V K L L G A S E L P I V T P>		
860	880	900
GCCCTAAGAG CCATAGGGAA TATTGTCACT GGTACAGATG AACAGACTCA GGTGTGTGATT		
A L R A I G N I V T G T D E Q T Q V V I>		
920	940	960
GATGCAGGAG CACTCGCCGT CTTTCCCAGC CTGCTCACCA ACCCCAAAC TAACATTTCAG		
D A G A L A V F P S L L T N P K T N I Q>		
980	1000	1020
AAGGAAGCTA CGTGGACAAT GTCAAACATC ACAGCCGGCC GCCAGGACCA GATACAGCAA		
K E A T W T M S N I T A G R Q D Q I Q Q>		
1040	1060	1080
GTTGTGAATC ATGATTAGT CCCATTCCCTT GTCAGTGTTC TCTCTAAGC AGATTTTAAG		
V V N H G L V P F L V S V L S K A D F K>		

FIG. 8C



1100	1120	1140
ACACAAAAGG AAGCTGTGTG	GGCCGTGACC AACTATACCA	GTGGTGAAC AGTTGAACAG
T Q K E A V W	A V T N Y T	S G G T V E Q>
1160	1180	1200
ATTGTGTACC TTGTTCACTG	TGGCATAATA GAACCGTTGA	TGAACCTCTT AACTGCAAAA
I V Y L V H C	G I I E P L	M N L L T A K>
1220	1240	1260
GATACCAAGA TTATTCTGGT	TATCCTGGAT GCCATTTCAG	ATATCTTTCA GGCTGCTGAG
D T K I I L V	I L D A I S	N I F Q A A E>
1280	1300	1320
AAACTAGGTG AACTAGCTG	CCCGTCTTCA CAGATTCAAG	AACAAGGGAA AAGACAGTAC
K L G E T S C	P S S Q I Q	E Q G K R Q Y>
1340	1360	1380
AGAAATGAGG CGTCCGAGGC	GTCCGAGAAT AGAGAAACTT	AGTATAATGA TTGAAGAATG
R N E A S E A	S Q N R E T>	
1400	1420	1440
TGGAGGCTTA GACAAAATTG	AAGCTCTACA AAACCATGAA	AATGAGTCTG TGTATAAGGC

FIG. 8D



1460	1480	1500
TTCGTTAAGC TTAATTGAGA AGTATTCTC TGTAGAGGAA GAGGAAGATC AAAACGTTGT		
1520	1540	1560
ACCAGAAACT ACCTCTGAAG GCTACACTTT CCAAGTTCAG GATGGGGCTC CTGGGACCTT		
1580	1600	1620
TAACTTTTAG ATCATGTAGC TGAGACATAA ATTTGTTGTG TACTACGTTT GGTATTTTGT		
1640	1660	1680
CTTATTGTTT CTCCTACTAAG AACTCTTTCT TAAATGTGGT TTGTTACTGT AGCACTTTTT		
1700	1720	1740
ACACTGAAAC TATACTTGAA CAGTTCCAAC TGTACATACA TACTGTATGA AGCTTGTCCT		
1760	1780	1800
CTGACTAGGT TTCTAATTTC TATGTGGAAT TTCCTATCTT GCAGCATCCT GTAAATAAAC		
1820		
ATTCAAGTCC ACCCTTTTCT TGACTTC		

FIG. 8E



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20	40	60
GAACGACCAA	GAGGGTGTTT	GACTGCTAGA
CCCGAGCAGA	AGCGTGCCTA	AATCAAAGGA
80	100	120
ACTTGTTTCT	TCAAGCTCTT	CTGGCAGTGA
TTCTGACAGT	GAGGTTGACA	AAAAGTTAAG
140	160	180
CAGGAAAAAG	CAAGTTGCTC	CAGAAAAACC
TGTAAAGAAA	CAAAGACAG	GTGAGACTTC
200	220	240
GAGAGCCCTG	TCATCTTCTA	AACAGAGCAG
CAGCAGCAGA	GATGATAACA	TGTTTCAGAT
TGGGAAAATG	AGGTCAGTT	

FIG.9



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TGTCGACTGT	GGCTTTGAGC	ATCCGTCAGA	AGTCCAGCAT	GAGTGCATCC	CTCAGGCCAT
	20		40		60
TCTGGGAATG	GATGTCCCTGT	GCCAGGCCAA	GTCGGGCATG	GGAAGACAG	CAGTGTTTGT
	80		100		120
CTTGGCCACA	CTGCAACAGC	TGGAGCCAGT	TACTGGGCAG	GTGTCTGTAC	TGGTGATGTG
	140		160		180
TCACACTCGG	GAGTTGGCTT	TTCAGATCAG	CAAGGAATAT	G	
	200		220		

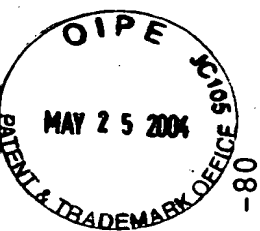
FIG. 10



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      20      40      60
ATTGTAAAC CCCGAGCGA GGTCTGCTT ACCCGAGCC GCTGCTGTGC GGAGACCCCC
      80      100     120
GGGTGAAGCC ACCGTCATCA TGTCTGACCA GGAGGCAAAA CCTTCAACTG AGGACTTGGG
      140     160     180
GGATAAGAAG GAAGGTGAAT ATATTAACT CAAAGTCATT GGACAGGATA GCAGTGAGAT
      200     220     240
TCACTTCAA GTGAAAATGA CAACACATCT CAAGAACTC AAAGAATCAT ACTGTCAAAG
      260     280     300
ACAGGGTGTT CCAATGAATT CACTCAGGTT TCTCTTTGAG GGCAGAGAA TTGCTGATAA
      320     340     360
TCATACTCCA AAAGAACTGG GAATGGAGGA AGAAGTTGTG ATTGAAGTTT ATCAGGAACA
AACGGGGGGT CA
```

FIG. 11



-103 TCTGACCCCTCGTCCCCCGCCGC -80

-81 CATTCGCCCTCCTCTGTCCCGCAGTCGGCGTCCAGCGGCTCTGCTTGTTCGTGTGTGCTGTCAGGCCTTATTC -1

1 ATGGGCTCACCGCTGAGGTTTCGACGGCGGGTGGTACTGGTCACCGCGCGGGCAGGATTGGGCCGAGCCTATGCCCT 80
M G S P L R F D G R V V L V T G A G A G L G R A Y A L 27

81 GGCTTTTGCAGAAAGAGGAGCGTGTAGTTGTTGTGAATGATTTGGGAGGGGACTTCAAAGGAGTTGGTAAAGGCTCCTTAG 160
A F A E R G A L V V V N D L G G D F K G V G K G S L 53

161 CTGATAAGGTTGTTGAAGAAATAAGAGAGGTGGAAGCAGTGCCCACTATGATTCAGTGGAAAGAGAGAGAAG 240
A D K V V E E I R R R G G K A V A N Y D S V E E G E K 80

241 GTTGTGAGACAGCCCTGGATGCTTTTGAAGAATAGATGTTGTGGTCAACAATGCTGGAATTCGTAGGGATCATTCCTT 320
V V K T A L D A F G R I D V V V N N A G I L R D H S F 107

321 TGCTAGGATAAGTGATGAAGACTGGGATATAATCCACAGAGTTCATTTGCGGGGTTTCATTCCAAGTGACACGGCGCAGCAT 400
A R I S D E D W D I I H R V H L R G S F Q V T R A A 133

401 GGAACACATGAAGAAACAGAAAGTATGGAAGGATTATATGACTTCATCAGCTTCAGGAATATATGGCAACTTTGGCCAG 480
W E H M K K Q K Y G R I I M T S S A S G I Y G N F G Q 160

481 GCCAATTATAGTGTGCAAGTTGGGTCTTCTGGGCCCTTGCAAAATTCCTTGCAATTGAAGGCAGGAAAGCAACATTCA 560
A N Y S A A K L G L G L A N S L A I E G R K S N I H 187

561 TTGTAACACCAATTGCTCCTAATGCGGGATCACGGATGACTCAGACAGTTATGCCTGAAGATCTTGTGGAAGCCTTGAAGC 640
C N T I A P N A G S R M T Q T V M P E D L V E A L K 213

641 CAGAGTATGTGCACCTCTTGTCCCTTTGGCTTTGTCCAGAGAGTTGTGAGGAGAAATGGTGGCTTGTTCAGGTTGGTGCA 720
P E Y V A P L V L W L C H E S C E E N G G L F E V G A 240

FIG. 12A



721 GGATGGATTGGAATAACGCTGGAGCGGACTCTTGGAGCTATTGTAAGACAAAAGAATCACCCCAATGACTCCTGAGGC 800
G W I G K L R W E R T L G A I V R Q K N H P M T P E A 267

801 AGTCAAGGCTAACTGGAAGAAGATCTGTGACTTTGAGAATGCCAGCAAGCCTCAGAGTATCCAAGAATCAACTGGCAGTA 880
V K A N W K K I C D F E N A S K P Q S I Q E S T G S 293

881 TAATTGAAGTTCTGAGTAAATAGATTTCAGAAGGAGGAGTTTCAGCAAATCATACTAGTCGTGCAACGCTCTACAGCAACA 960
I I E V L S K I D S E G G V S A N H T S R A T S T A T 320

961 TCAGGATTTGCTGGAGCTATTGCCAGAACTCCCTCCATTTCTTATGCTTATACGGAAGCTGGAAGCTATTATGTATGC 1040
S G F A G A I G Q K L P P F S Y A Y T E L E A I M Y A 347

1041 CCTTGGAGTGGAGCGTCAATCAAGGATCCAAAAGATTGAAATTTATTTATGAAGGAAGTTCTGATTTCTCCTGTTTGC 1120
L G V G A S I K D P K D L K F I Y E G S S D F S C L 373

1121 CCACCTTCGGAGTTATCATAGGTCAGAAATCTATGATGGTGAGGATTAGCAGAAATTCCTGGACTTTCAATCAACTTT 1200
P T F G V I I G Q K S M M G G G L A E I P G L S I N F 400

1201 GCAAAGTTCTTCATGGAGAGCAGTACTAGAGTTATATAAACCACTTCCCAGAGCAGGAAAATTAATAATGTGAAGCAGT 1280
A K V L H G E Q Y L E L Y K P L P R A G K L K C E A V 427

1281 TGTGCTGATGTCCTAGATAAAGGATCCGGGTAGTGATTATGATGATGCTCTATTCTTATTCTGAGAAGGAACCTTATAT 1360
V A D V L D K G S G V V I I M D V Y S Y S E K E L I 453

1361 GCCACAATCAGTTCTCTCTCTTCTTGTGGCTCTGAGGCTTTGGTGGAACCGGACATCAGACAAAGTCAAGGTAGCT 1440
C H N Q F S L F L V G S G G F G G K R T S D K V K V A 480

FIG. 12B



1441 GTAGCCATACCTAATAGACCTCCTGATGCTGTACTTACAGATACCACTCTCTTAATCAGGCTGCTTTGTACCGCCTCAG 1520
V A I P N R P P D A V L T D T T S L N Q A A L Y R L S 507

1521 TGGAGACCGGAATCCCTTACACATTGATCCCTAACTTTGCTAGCTAGCAGGTTTGGACAAGCCCATATTACATGGATTAT 1600
G D R N P L H I D P N F A S L A G F D K P I L H G L 533

1601 GTACATTTGGATTTTCTGCCAGGCGTGTGTACAGCAGTTTGCAGATAATGATGTGTCAAGATTCAAGGCAGTTAAGGCT 1680
C T F G F S A R R V L Q Q F A D N D V S R F K A V K A 560

1681 CGTTTGC AAAACAGTATATCCAGGACAAACTCTACAACTGAGATGTGGAAGGAAGAAACAGAAATTCATTTTCAAAC 1760
R F A K P V Y P G Q T L Q T E M W K E G N R I H F Q T 587

1761 CAAGGTCCAAGAAACTGGAGACATTGTCAATTTCAAATGCATATGTGGATCTTGCACCAACATCTGGTACTTCAGCTAAGA 1840
K V Q E T G D I V I S N A Y V D L A P T S G T S A K 613

1841 CACCCCTCTGAGGCGGGAAGCTTCAGAGTACCTTTGTATTGAGGAAATAGGACGCCCGCTAAAGGATATTGGGCGCTGAG 1920
T P S E G G K L Q S T F V F E I G R R L K D I G P E 640

1921 GTGGTGAAGAAAGTAAATGCTGTATTTGAGTGGCATATAACCAAGCGGAAATATTGGGGCTAAGTGGACTATTGACCT 2000
V V K K V N A V F E W H I T K G G N I G A K W T I D L 667

2001 GAAAAGTGGTTCTGGAAAAGGTACCAAGGCCCTGCAAAAGGTGCTGTGATACAAATCATACTTTTCAGATGAAGATT 2080
K S G S G K V Y Q G P A K G A A D T T I I L S D E D 693

2081 TCATGGAGGTGCTGGGCAAGCTTGACCCCTCAGAAGGCATTCTTTAGTGGCAGGCTGAAGGCCAGAGGGAACATCATG 2160
F M E V V L G K L D P Q K A F F S G R L K A R G N I M 720

2161 CTGAGCCAGAAACTTCAGATGATTCTTAAAGACTACGCCAAGCTCTGAAGGGCACACTACTATTATAATAAAATGGAAT 2240
L S Q K L Q M I L K D Y A K L 735

FIG. 12C



Docket No.: 6923-054-999

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Inventor(s): Palese et al.

Title: IDENTIFICATION AND USE OF
ANTIVIRAL COMPOUNDS THAT INHIBIT
INTERACTION OF HOST CELL PROTEINS...

2241 CATTAATACTCTCTCACCCCAAATATGCTTGATTATTCTGCAAAAGTGATTAGAACTAAGATGCAGGGGAAATTGCTTA 2320
2321 ACATTTTCAGATATCAGATAAAGTGCAGATTTTCATTTTCTACTAATTTTTCATGTATCATTAATTTTACAGGAATA 2400
2401 TATAAGCTAGCACATAATTATCCTTCTGTCTTAGATCTGTATCTTCATAATAAAAAAATTTTGCCCCAAGTCCCTGTTTCC 2480
2481 TTAGAAATTTGTGATAGCATTGATAAAGTTGAAAGGAAAAATTAAATCAATAAAGGCCCTTTGATACCTTTAAAAA 2560



AAAAAAAAAAAA

FIG. 12D



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Kb

9.5 —
7.5 —
4.4 —
2.37 — 
1.35 — 

0.24 —

FIG.13



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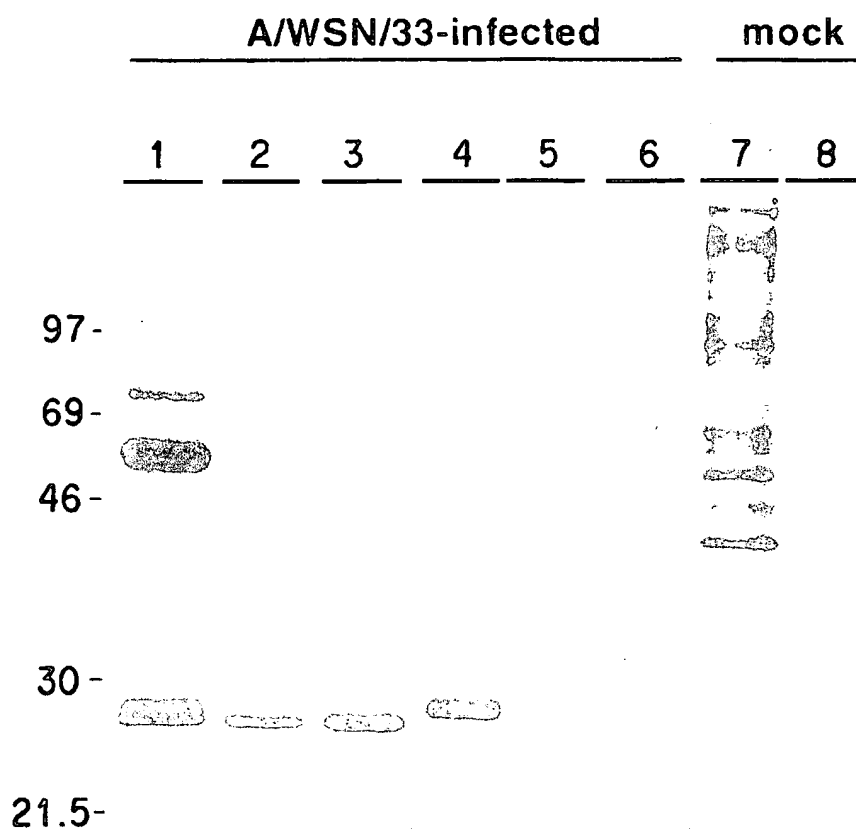
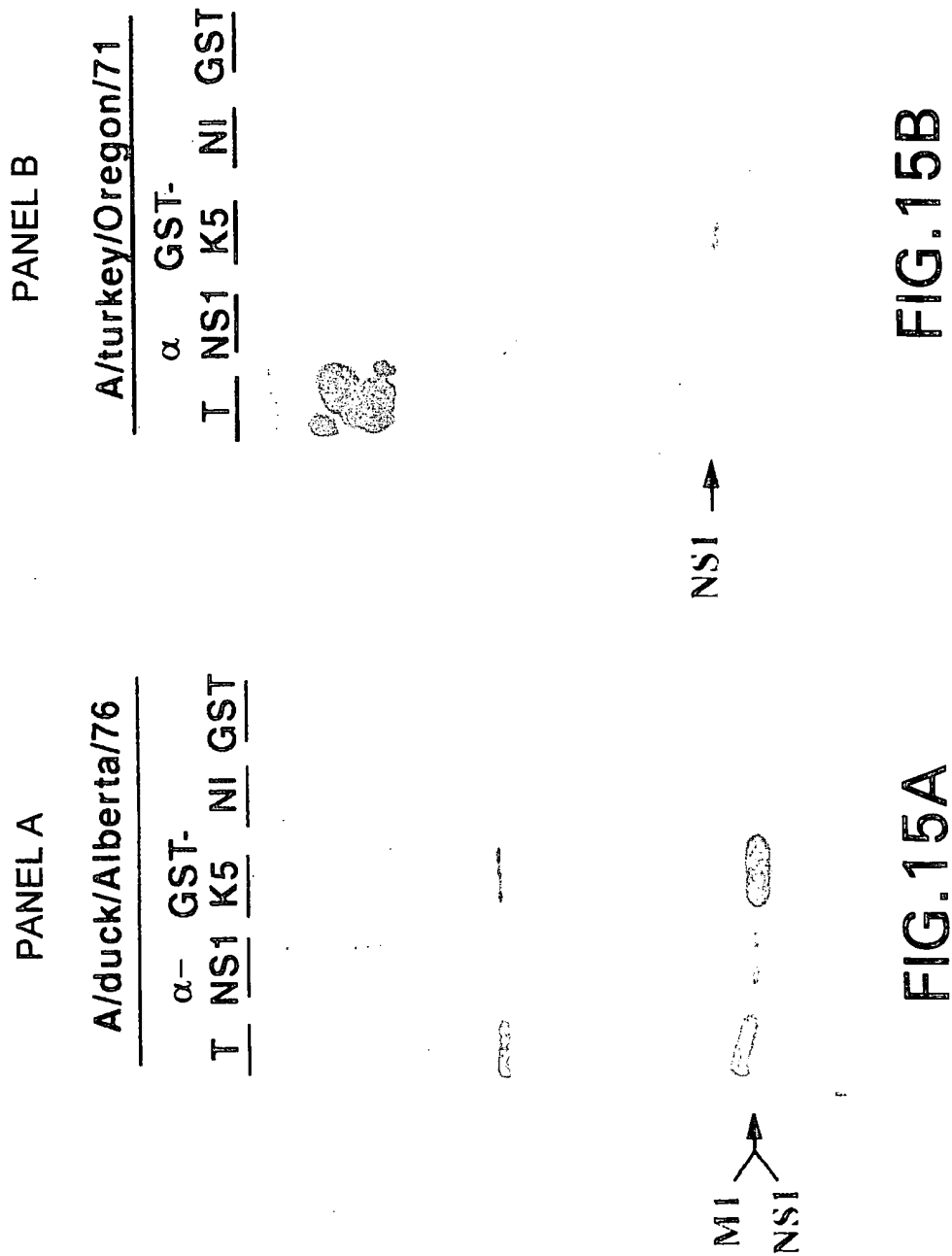


FIG.14



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FIG.15C

FIG.15D

FIG.15E